Resource Management System Alternatives

						June 2002
RMS #1 Template Label:	Crop, 8-20%, MWD, Animal	State: C	OHIO MLRA / CRA: Statewide			Page 1 of 3
RMS #1 Name/Phrase:	RMS #1 High Treatment		·	·		Location Area
Present Land Use:	Cropland	Planned Land Use:		(Cropland	Statewide
Planned Practices	Benchmark Desc	Benchmark Description		Planned System Description and How Practice Support the Sy		
Conservation Crop Rotation -	Cropland used for grain and forage (corn-corn	rn silage-wh	heat-hay-hay-hay)	A rotation of corn-corn silage-whe	at- and 3 ye	ears of hay is planned combined with no till
Waste Utilization - 633	production. Sheet and rill erosion is a major	concern as	s well a	crop production. The combination	n of the no ti	II, with high residue management, and
Grassed Waterway - 412	concentrated flow (ephemeral) erosion. Slop	oes range fi	rom 8-20%. Mulch	rotation will reduce erosion from 7	7-12 tons do	wn to 3-4 tons/ac/yr and significantly reduce
Nutrient Management - 590	tillage is used with about 30% cover after pla					iment from reaching surface water. Nutrient
Pest Management - 595	not used to plan fertilizer and manure applica					use of nutrients and pesticides and reduce
Residue Management, No-till &	pesticides, and sediment are surface water q					nent, nutrient, and pesticide transport to
Filter Strip - 393A	crusts in the spring and impacts crop emerge		vater infiltration.		ation will also	o improve the tilth of the soil. The grassed
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Resource Concerns	Benchmark Effects			d System Effects		Impact of Planned System
Soil Erosion; Sheet & Rill	Sheet and rill erosion ranges from 8-15 tons/s	/ac/yr E	rosion to reduced to t	olerable levels with residue mgt.	Erosion red	luced from 7-12 tons to 3-4 tons/ac/yr.
	using mulch till with 30% cover.		nd rotation.			
Soil Erosion; Concentrated Flow	Concentrated flow erosion results in gully ero	osion T	The grassed waterway controls gully erosion.		Erosion rec	luced from 46 ton per 1000 ft. to nearly zero.
	about 1 ft. deep by 1 ft. wide annually.					
Water Quality, Surface Water;	The high erosion rates transport sediment, no	utrients, T	he transport of nutrie	nts, pesticides, and sediment is	Water qual	ity goals met through BMP implementation.
Pesticides, Nutrients, Organics,	and pesticides to surface water.		ignificantly reduced.			,
Soil Condition; Tilth, Crusting,	The intensive cropping and tillage system de	ecreases T	he rotation and tillage	system will increase O.M. and	Soil conditi	on index increased from .04 to .49.
Infiltration, Organic Matter	O.M. and increases soil crusting.	til	lth.	•		
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Resource Management System Alternatives

RMS #2 Template Label:	Crop, 8-20%, MWD, Animal	State: OHIO	MLR	A / CRA: Statewide		Page 2 of 3	
RMS #2Name/Phrase:	RMS #2 Mod. Treatment					Location Area	
Present Land Use:	Cropland	ropland Planned Land Use			Cropland	Statewide	
Planned Practices	Benchmark Description			Planned System Description and How Practice Support the System			
Conservation Crop Rotation -	Cropland used for grain and forage (corn-corn silage-wheat-hay-hay-hay)		/-hay)	A rotation of corn-corn silage-wheat- and 3 years of hay is planned combined with no till			
Waste Utilization - 633	production. Sheet and rill erosion is a major					II, with high residue management, and	
Grassed Waterway - 412	concentrated flow (ephemeral) erosion. Slop	oes range from 8-20%.	Mulch			wn to 3-4 tons/ac/yr and significantly reduce	
	tillage is used with about 30% cover after pla					iment from reaching surface water. Nutrient	
Pest Management - 595	ot used to plan fertilizer and manure application rates. Nutrients,			and pest management will better improve the use of nutrients and pesticides and reduce			
Residue Management, No-till & 0	pesticides, and sediment are surface water of crusts in the spring and impacts crop emerge				rotation will also improve the tilth of the soil. The grassed the gully erosion.		
0 0 0							
Resource Concerns	Benchmark Effects		Planned System Effects			Impact of Planned System	
Soil Erosion; Sheet & Rill	Sheet and rill erosion ranges from 8-15 tons/ using mulch till with 30% cover.	and rotation.	Erosion to reduced to tolerable levels with residue mgt. and rotation.			luced from 7-12 tons to 3-4 tons/ac/yr.	
	Concentrated flow erosion results in gully ero about 1 ft. deep by 1 ft. wide annually.	The grassed v	The grassed waterway controls gully erosion.		Erosion rec	luced from 46 ton per 1000 ft. to nearly zero.	
Water Quality, Surface Water; Pesticides, Nutrients, Organics,	The high erosion rates transport sediment, n and pesticides to surface water.		The transport of nutrients, pesticides, and sediment is significantly reduced.		Water qual	ity goals (< RMS 1) met through BMP	
Soil Condition; Tilth, Crusting, Infiltration, Organic Matter	The intensive cropping and tillage system de O.M. and increases soil crusting.	tilth.	The rotation and tillage system will increase O.M. and		Soil condition	on index increased from .04 to .49.	
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RMS #3 Template Label:	Crop, 8-20%, MWD, Animal	State:	MLRA / CRA:		Page 3 of 3		
RMS #3 Name/Phrase:	RMS #3 Low Treatment				Location Area		
Present Land Use:	Cropland	Use:	Cropland	Statewide			
Planned Practices	Benchmark Desc	cription	Planned System Des	•	Practice Support the System		
Conservation Crop Rotation -	Cropland used for grain and forage (corn-corn silage-wheat-hay-hay-hay)			A rotation of corn-corn silage-wheat- and 3 years of hay is planned combined spring mulci			
Waste Utilization - 633	production. Sheet and rill erosion is a major	r concern as well a			roduction. The combination of the high		
Grassed Waterway - 412	concentrated flow (ephemeral) erosion. Slo				ion from 7-12 tons down to 3-5		
Nutrient Management - 590	tillage is used with about 30% cover after pla				nutrients, pesticides, and sediment		
Pest Management - 595	not used to plan fertilizer and manure applic	ation rates. Nutrients,	from reaching surface water.	Nutrient and pest ma	anagement will better improve the use		
Residue Management, Mulch till -	pesticides, and sediment are surface water				o till and rotation will also improve the		
Residue Management, No-till & 0 0 0 0 0	crusts in the spring and impacts crop emerg	ence and water infiltration	tilth of the soil. The grassed	waterways will contro	i the gully erosion.		
0 0 Resource Concerns	Benchmark Effects		Planned System Effects		npact of Planned System		
Soil Erosion; Sheet & Rill	Sheet and rill erosion ranges from 8-15 tons using mulch till with 30% cover.	and rotation.			from 7-12 tons to 3-5 tons/ac/yr.		
	Concentrated flow erosion results in gully er about 1 ft. deep by 1 ft. wide annually.		The grassed waterway controls gully erosion.		I from 46 ton per 1000 ft. to nearly zero		
	The high erosion rates transport sediment, r and pesticides to surface water.	significantly rec	The transport of nutrients, pesticides, and sediment is significantly reduced.		oals (< RMS 1&2) met through BMP		
Soil Condition; Tilth, Crusting, Infiltration, Organic Matter	The intensive cropping and tillage system do O.M. and increases soil crusting.	ecreases The rotation an tilth.			dex increased from .04 to .49.		
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